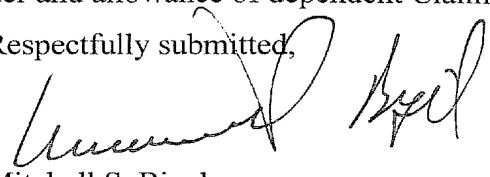
REMARKS

In response to the Election/Restriction requirement of November 14, 2006, Applicants hereby elect Species I, directed to waveform processing that extracts events using time/amplitude window discrimination, corresponding to dependent Claims 2 and 20. This election is being made without traverse, because Applicants agree that the claims to Species I are patentably distinct from the claims of Species II (directed to waveform processing that extracts events using template matching and corresponding to dependent Claims 3 and 21), and from the claims of Species III (directed to waveform processing that extracts events using categorization of detected neural events and corresponding to dependent Claims 6 and 22). However, Applicants respectfully submit that many of the pending claims are generic to Species I-III. In particular, independent Claim 1, dependent Claims 4-5 and 7-18, independent Claim 19, dependent Claims 23-29 and independent Claim 30, are all generic to Species I-III. Accordingly, upon allowance of any these generic claims, Applicants will be entitled to consideration of dependent Claims 3, 6, 21 and 22, and allowance thereof.

In conclusion, Applicants elect Species I without traverse, but respectfully submit that most of the claims are generic to Species I-III. Accordingly, Applicants respectfully request examination of Claims 1-2, 4-5, 7-20 and 23-30, and, upon allowance of any generic claim, Applicants respectfully request rejoinder and allowance of dependent Claims 3, 6, 21 and 22.

Respectfully submitted,



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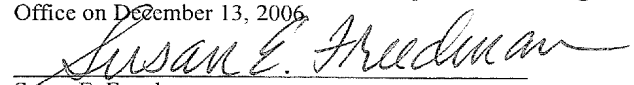
CERTIFICATION OF ELECTRONIC TRANSMISSION UNDER 37 CFR § 1.8

I hereby certify that this correspondence is being transmitted electronically to the U.S. Patent and Trademark Office on December 13, 2006.



Susan E. Freedman
Date of Signature: December 13, 2006